BRUHATH BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE ELECTRICAL DIVISION

Name of the work :- Detaild estimate for Annual Maintenance and Repairs of Electrical Installation to BBMP buildings coming Under Yalahanka Division

Est Cost Rs. 550000.00

Sl. No	SR Page No	Description	Unit	Qty	Rate	Amount
1	Labour Dept	Licenced electricial wiremen with tools (Skilled) Rs.605.56/Person/Day. KAE31LMW 2017 Dated 30-12-2017 Minium Wages and VDA From 01-04-2021 to 31-03-2022	Per Year	220	605.56	133223.20
2	Labour Dept	Assistant electricial wiremen (semiSkilled) Rs.605.56/Person/Day. KAE31LMW 2017 Dated 30-12-2017 Minium Wages and VDA From 01-04-2021 to 31-03-2022	Per Year	220	556.53	122436.60
3	11/3.14.1	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board.6Amps SP Switch	Nos	70	40.00	2800.00
4	11/3.15.3	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board.6Amps 3 way 5 pin Socket	Nos	15	60.00	900.00
5	11/3.16.4	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board.6Amps 3 pin Top	Nos	10	48.00	480.00
6	11/3.17.7	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board.6 Amps bell push	Nos	10	55.00	550.00
7	11/3.18.9	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board.16 Amps SP switch	Nos	15	98.00	1470.00
8	11/3.19.11	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board.16 Amps 3 way 5 pin socket	Nos	10	105.00	1050.00
9	11/3.20.12	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board.16 Amps 3 pin top	Nos	10	90.00	900.00
10	11/3.21.13	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board.32 Amps Bakelite DP	Nos	10	185.00	1850.00
11	11/3.22.14	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board.16/6 Amps combined plug and socket with control switch	Nos	15	260.00	3900.00
12	11/3.23.15	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board.Electronic stepped regulator.	Nos	20	205.00	4100.00
13	3/1.8.1	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, junction box, elbows, screws at an interval of 300mm .... etc. as required.20mm	Mtrs	50	22.00	1100.00
14	3/1.8.2	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, junction box, elbows, screws at an interval of 300mm .... etc. as required.25mm	Mtrs	50	24.00	1200.00

15	5/2.3.2	Wiring for lighting/power circuit using one of **FRLS** PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments.1.5 sqmm	Mtrs	180	20.50	3690.00
16	5/2.3.3	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments2.5sqmm	Mtrs	150	32.00	4800.00
17	9/3.3.1	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete.1-3Way	Nos	5	85.00	425.00
18	9/3.3.2	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete.4-5Way	Nos	5	103.00	515.00
19	9/3.3.3	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete.6Way	Nos	5	115.00	575.00
20	9/3.5.1	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.1 to 3 Module	Nos	5	110.00	550.00
21	9/3.5.2	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.4 Module	Nos	5	125.00	625.00
22	9/3.5.3	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.6 Module	Nos	5	175.00	875.00
23	10/3.6.1	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6Amps one way Switch	Nos	15	70.00	1050.00
24	10/3.6.3	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6Amps one way Switch 6Amps 3way socket	Nos	15	105.00	1575.00
25	10/3.6.4	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6Amps one way Switch Stepped Fan Regulator	Nos	10	290.00	2900.00

26	10/3.6.8	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.16Amps one way switch	Nos	15	115.00	1725.00
27	10/3.6.11	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6/16Amps universal socket	Nos	15	162.00	2430.00
28	10/3.8	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws.	Sq Cm	3000	0.27	810.00
29	24/5.2.1	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor.Upto 12.5 HP	Nos	1	6400.00	6400.00
30	24/5.1	Supplying push button operated direct online starter with an antiweld silver cadmium oxide contactor with replaceable fixed and moving contacts and bimetallic thermal overload relay help in anticorrosion treated sheet steel or iron clad enclosure and fixing the same to suitable capacity wires for 230/440 volts 1/3 phase motor upto 5 HP.	Each	1	1380.00	1380.00
31	27/5.17.1	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32Amps SP	Nos	8	434.00	3472.00
32	27/5.17.4	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32 Amps DP	Nos	6	909.00	5454.00
33	27/5.17.3	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.40 Amps TPN	Nos	3	2374.00	7122.00
34	40/6.4.5	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 3.5 core 25 sqmm	Mtrs	100	180.00	18000.00
35	41/6.5.7	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 25 sqmm to 75 sqmm	Mtrs	100	35.00	3500.00

36	6.6	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Mtrs	75	76.00	5700.00
37	6.15	Supply and wrapping the conductor with camabrick tape roll.	Per roll	15	118.00	1770.00
38	46/7.3.1	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374- 1979 and with double ball bearing system.48" Sweep (1200mm) Regular model	Nos	10	2090.00	20900.00
39	46/7.5.2	Supplying wall mounting fan suitable to operate at single- phase 230v A.C. supply.400mm Sweep	Nos	5	2800.00	14000.00
40	9.1	Supplying and drawing UTP-CAT 6E LAN cable.	Mt.	100	29.00	2900.00
41	64/12.3.2	Supplying of .....feet - PVC Batten with integrated LED tube .....W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition.LED light fighting 1 x4'- 20/22 w	Nos	25	375.00	9375.00
42	12.4.3	Supplying of recess mounting non integrated type LED down light ..... W luminaire comprising of pressure decast/ extruded aluminium housing, with spring loaded false ceiling clamps, LED of Power/COB with CCT 6500 degree K, CRI> 70%. efficacy >100 lumen per watt, 120degree beam spread, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The lamp compartment is enclosed with anti glare opal diffuser which enhances the lighting level. LEDs are driven by HF electronic driver integrated in a separate control gear assembly., with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition.15-18W	Nos	10	2000.00	20000.00

43	65/12.5.3	Supply of round/square recess/surface mounted rolling type LED Down light with .....W GU 10 LED Lamp Rib Fabricated from Die cast aluminium with white powder coated prewired to mains connector & has swiveling unit of aluminium die cast eye ball & LED Lamp position retained by circular wire spring, with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition LED square or round down light 15-18W	Nos	20	1150.00	23000.00
44	71/13.2.1	Supplying and fixing one of 230 volts bell or buzzer and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws.	Nos	4	160.00	640.00
45	71/13.2.3	Supplying and fixing one of 230 volts Ding dong bell and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws with Remote.Remote	Nos	5	1034.00	5170.00
46	71/13.3.2	Supplying and fixing/replacing condenser for ceiling fan/MV/ SV/MH and other luminaries.8mfd	Nos	20	142.00	2840.00
47	13.4.3	Rewinding a ... mm ceiling fan/after using necessary gauge annealed and insulated copper wire with necessary insulating, separators vibration arresting shellac, etc including replacement of bearings if any transportation to and from the spot to workshop inclusive of releasing the refixing.1200MM	Nos	15	693.00	10395.00
48	72/13.12.1	Supplying and fixing/replacing of fluorescent tube.18 to 40Watts	Nos	100	83.00	8300.00
49	73/13.23	Supplying and fixing of 20/40 Watts heavy duty open construction Ferromagnetic copper ballast for fluorescent tubes : Supplying and fixing of 20/40 Watts heavy duty open construction Ferromagnetic copper ballast for fluorescent tubes, Class H Insulated copper wire, Vacuum impregnated high quality with Low loss silicon steel lamination operated on 240V,50Hz supply with IEC 60920 (Safety) & IEC 60921(Performance). Operating voltage range from 180V to 265V, 50Hz AC power Supply.	No	25	275.00	6875.00
50	13.44	Supplying & Fixing of 230 Volts 20/40 watts starter for Fluorescent Lamp	No	75	23.00	1725.00
51	13.45	Supplying & Fixing of 230 Volts 20/40 watts Fluorescent Lamp holder	No	25	15.00	375.00
52	13.51.3	Supplying & fixing LED Drivers suitable for 5700K LED fitting Indoor Fixtures. Operating voltage range from 180V to 265V, 50Hz AC power Supply 9W to 12W 5700K suitable for indoor LED fitting.	No	5	286.00	1430.00
53	13.51.4	Supplying & fixing LED Drivers suitable for 5700K LED fitting Indoor Fixtures. Operating voltage range from 180V to 265V, 50Hz AC power Supply 15W to 18W 5700K suitable for indoor LED fitting.	No	5	583.00	2915.00

54	79/14.7.1	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.On wall / ceiling / Rafter / Girders	No	55	110.00	6050.00
55	80/14.8	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring.	Each	10	150.00	1500.00
56	80/14.9	Fixing a ceiling / wall mounting fan of all capacities and all types, with necessary clamps and 'S' hook made out of 15mm dia MS rod, with 5 amps. ceiling rose of approved quality with necessary length of 23 / 0.0076 inch PVC insulated twin twisted wire of approved quality, mounted on a suitable size wooden board and wired.	Each	5	260.00	1300.00
		Total Rs				**490992.80**
		GST 12 %				58919.14
		Misscelleneous charges				88.06
		TOTAL				**550000.00**

CERTIFICATE

1. The Place was inspected and work is essential.
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD(Elec) SR of 2019-20,BESCOM CSR 2018-19 & approved Rates

Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YELAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction for Rs. 5,50,000=00
Rupees FIVE LAKH FIFTY THOUSAND ONLY
is accorded under head D3254
Registered as EE No. Subject to conditions contained in
No BBMP/CE/EE/42/AS/11/21-22
Dt 13/8/2021

Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 5,50,000=00
Rupees FIVE LAKH FIFTY THOUSAND ONLY
Under D3254
Registered as EE ( ) No. 09
Subject to conditions contained in
Sanctioned memo No. BBMP/CE/EE/42/AS/21-22
Dt. BBMP/CE/EE/42/TS/09/21-22
Dated 13/8/2021 Estimate A/C Sanctioned for Rs. 5,50,000=00

Executive Engineer